|    | Index of Claims |          |          |          |          |          |          |                    |       |           |              |                          |              |            | Ap              | Application/Control No. |                        |             |              |                    |          |          |          |               |          | Applicant(s)/Patent under |                        |         |                    |              |   |          |           |   |   |
|----|-----------------|----------|----------|----------|----------|----------|----------|--------------------|-------|-----------|--------------|--------------------------|--------------|------------|-----------------|-------------------------|------------------------|-------------|--------------|--------------------|----------|----------|----------|---------------|----------|---------------------------|------------------------|---------|--------------------|--------------|---|----------|-----------|---|---|
|    | Index of Claims |          |          |          |          |          |          |                    |       |           |              |                          |              | 10/640.660 |                 |                         |                        |             |              |                    |          |          |          | Reexamination |          |                           |                        |         |                    |              |   |          |           |   |   |
| •  |                 |          |          |          |          |          |          |                    |       | Ш         | Ш            |                          |              |            |                 | ŀ                       | 10/649,669<br>Examiner |             |              |                    |          |          |          |               |          |                           | YAKO, ISAO<br>Art Unit |         |                    |              |   |          |           |   |   |
|    |                 |          |          |          |          |          |          |                    |       |           |              |                          |              |            |                 |                         |                        |             |              |                    |          |          |          |               |          |                           |                        |         |                    |              |   |          |           |   |   |
|    |                 | 118878   |          |          |          | 1117 61  |          | 10110              | •     |           | 18 181       | 1000                     |              |            |                 | $\perp$                 | Adam R. Giesy          |             |              |                    |          |          |          |               |          |                           | 2627                   |         |                    |              |   |          |           |   |   |
|    |                 |          | _        | -        |          |          |          | 7                  |       | _         | _            |                          |              |            |                 |                         |                        | _           | _            | _                  | _        |          |          | _             | 1        | $\overline{}$             |                        |         |                    |              |   | 1        |           |   |   |
|    |                 |          | <b>√</b> | Rejected |          |          | -        |                    | -     | -         | (T           | (Through numer Cancelled |              |            |                 | 1)                      |                        | N           | , P          | Non-Elected        |          |          | d        |               | A        | Appeal                    |                        |         |                    | ľ            |   |          |           |   |   |
|    |                 | $\vdash$ | Allowed  |          |          | -        |          | +                  | +-    |           | Cancelled    |                          |              | •          |                 | $\dashv$                | F                      | ╬-          |              |                    |          | -        |          | 귀             |          |                           |                        |         | ł                  |              |   |          |           |   |   |
| •  |                 |          |          |          |          | =        |          |                    |       |           |              | Restricted               |              | i          |                 |                         | þ                      |             | Interference |                    |          | e        | 0        | Objected      |          |                           |                        |         |                    |              |   |          |           |   |   |
|    |                 | L.,      |          |          |          | J        |          |                    |       |           |              |                          |              | لــ        |                 | L                       | Щ.                     | ···         |              |                    |          | Į        |          |               |          |                           |                        | J       |                    |              | •   |          |           |   |   |
|    | Cla             |          |          |          | Date     |          |          | le                 |       |           |              | ]                        | Claim        |            |                 |                         |                        | Da          | le           |                    |          |          |          | Clain         | laim     |                           | Date                   |         |                    |              |   |          |           |   |   |
|    | _               | <u>a</u> | æ        | 7        |          |          |          |                    | I     |           |              |                          | _            | - a        |                 |                         |                        |             |              |                    |          |          | Γ.       |               | <b>E</b> |                           |                        |         |                    |              |   |          |           |   |   |
|    | Final           | Original | 7/24/06  | 118/0    |          |          |          |                    |       |           |              |                          | Final        | Original   |                 | ł                       |                        |             |              | 1                  |          |          |          |               | Onginal  |                           | 1                      | ľ       |                    | ĺ            |   |          |           |   |   |
|    |                 | I ~      |          |          | L_       |          |          | L                  | L     | ┸         | 丄            |                          | ഥ            | 1          | Ш               |                         | ⊥                      |             | L            | $oldsymbol{\perp}$ | L        | Ш        | L        |               |          |                           | $\perp$                | $\perp$ | L                  |              | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |          |           |   |   |
|    | $\vdash$        | Q        | 0~       |          | L        | L        | L        | L                  | Ţ     | 1         | _            | -                        | <u> </u>     | 51<br>52   |                 | _                       | 4                      | 1           | Ļ            | $\bot$             | L        | Н        | F        |               | 01<br>02 |                           | 4                      | Ŧ       | Į.                 | L            | _   |          |           |   |   |
|    | -               | 3        | 7        | ·        | $\vdash$ | $\vdash$ | H        | +                  | +     | +         | +            | 1                        | -            | 53         | H               | $\dashv$                | +                      | +           | $\dagger$    | +                  | $\vdash$ | H        | $\vdash$ |               | 03       | +                         | +                      | +       | +                  | +            | +   | Н        | H         |   |   |
|    |                 | 4        | 7        | 7        |          | L        |          | T                  | T     | 丰         | 1            |                          |              | 54         | 口               | $\Box$                  | $\downarrow$           | 工           | I            | 工                  | 匚        | 口        |          | 1             | 04       | $\Box$                    | 工                      | 丰       | 1                  | 上            | 二   |          |           |   | • |
|    | <u></u>         | 5<br>6   | 4        | 7        |          | $\vdash$ | 1        | +                  | +     | +         | +            | 1                        | ļ            | 55<br>56   | Н               | $\dashv$                | +                      | +           | +            | +                  | $\vdash$ | Н        | -        |               | 55<br>66 | $\dashv$                  | +                      | +       | ╀                  | +            | +   | $\vdash$ | Н         |   |   |
|    | -               | 7        |          | i        |          | $\vdash$ | ┢        | ╁                  | ╁     | 十         | ╁            | ┪                        | $\vdash$     | 57         | Н               | $\dashv$                | +                      | +           | +            | +                  | ┢        | Н        | $\vdash$ |               | 07       | $\dashv$                  | ╁                      | +       | ╁                  | +            | 十   | ┢        | Н         |   |   |
|    |                 | 8        | 7        | н        |          | Г        |          |                    | T     | 工         | I            | 1                        |              | 58         | 口               |                         | 1                      |             | İ            |                    |          |          |          | 1             | 80       |                           | 工                      | 1       | 丄                  | L            | 上   |          |           |   |   |
|    | -               | 10       | 40       |          | H        | ┾        | ╄        | ╀                  | ╀     | ╀         | +            | ┨                        | <u> </u>     | 59<br>60   | $\vdash \vdash$ | $\dashv$                | +                      | +           | ╀            | +-                 | -        | Н        | -        |               | 09<br>10 | $\dashv$                  | +                      | ┿       | ╀                  | ╀            | ╀   | ┝        | -         |   |   |
|    | -               | 11       | 7        | Ī        | -        | ┢        | ┢        | 十                  | ╁     | ╁         | ╁            | ┪                        | $\vdash$     | 61         | Н               | $\dashv$                | 十                      | +           | 十            | ╁                  | $\vdash$ | H        | $\vdash$ |               | 11       | $\dashv$                  | 十                      | ┿       | 十                  | 十            | ╁   | -        |           |   |   |
|    |                 | 12       | 7        | =        | -        |          |          | T                  | 1     | I         | 工            | 1                        |              | 62         | П               | $\Box$                  | 1                      | 1           | I            | Ţ                  |          |          |          | 1             | 12       |                           | 工                      | I       | I                  | I            |   |          |           |   |   |
|    | $\vdash$        | 13       | 70       | =        |          | ╀        | ╀        | ╀                  | ╀     | +         | +-           | ┨                        | <u> </u>     | 63<br>64   | $\vdash$        |                         | +                      | +           | ╀            | +                  | -        | Н        | $\vdash$ |               | 13<br>14 | $\vdash$                  | ╁                      | +       | ╀                  | +            | +   | $\vdash$ | Н         | • |   |
|    |                 | (3)      |          |          |          | 十        | $\vdash$ | t                  | t     | $\dagger$ | +            | 1                        |              | 65         |                 | 1                       | $^{\dagger}$           |             | t            |                    | <u> </u> | Н        |          |               | 15       |                           | 十                      | Ť       | +                  | t            | +   |          |           |   |   |
|    |                 | (16)     | 7        | Ξ        |          | Г        |          | L                  | T     | Ţ         | T            | ]                        |              | 66         | П               | $\Box$                  | 4                      | 1           | I            | Ţ                  |          |          |          |               | 16       |                           | $\bot$                 | Ţ       | L                  | L            |   |          |           |   |   |
|    | -               | 17       | Н        | H        | ┝        | ╁        | ╁        | ╀                  | ╀     | ╀         | ╁            | ┨                        | ┢            | 67<br>68   | Н               | -                       | +                      | ╁           | ╁            | +                  |          | Н        | -        |               | 17<br>18 | -                         | ╬                      | ┿       | ┿                  | ╁            | +   | $\vdash$ | -         |   |   |
|    |                 | 19       |          |          |          |          |          | t                  | t     | 1         | 士            | 1                        |              | 69         | 口               |                         | 1                      |             | 士            | 工                  |          |          |          | 1             | 19       | $\Box$                    | 土                      | İ       | T                  | t            | 上   |          |           |   |   |
|    |                 | 20       |          |          |          | F        | L        | $oldsymbol{\perp}$ | Ţ     | Ţ         | Ţ            | ]                        |              | 70         | $\Box$          | $\dashv$                | 4                      |             | Ţ            | 1                  | L        | $\Box$   |          |               | 20       | П                         | 1                      | Ļ       | Ļ                  | L            | $\perp$   |          |           |   |   |
|    | -               | 21       | Н        | _        | ┝        | $\vdash$ | ├        | +                  | ╁     | ╀         | ╁            | ┨                        | $\vdash$     | 71         | Н               | $\dashv$                | +                      | +           | ╁            | ╁                  | ┝        | Н        | $\vdash$ |               | 21<br>22 |                           | ╁                      | ╫       | ╁                  | ╀            | ╀   | ├        |           |   |   |
|    |                 | 23       |          |          | T        | İ        | T        | T                  | T     | 土         | I            | 1                        |              | 73         |                 |                         |                        | 士           | T            | $\pm$              |          | Ħ        |          | 1:            | 23       |                           | 士                      | $\pm$   | 上                  | T            |   |          |           |   |   |
|    |                 | 24       |          | _        | _        | <u> </u> | L        | 1                  | 1     | +         | $\perp$      | 1                        | _            | 74         | Н               | _                       | 1                      | 1           | Ļ            | 4                  |          | П        | F        |               | 24       |                           | 4                      | ╀       | $oldsymbol{\perp}$ | L            | $\perp$   | <u> </u> |           |   |   |
|    | $\vdash$        | 25<br>26 | Н        | _        | ┢        | ┼╌       | ⊢        | t                  | ╁     | ┿         | ╁            | 1                        | <u> </u>     | 75<br>76   | H               | $\dashv$                | +                      | +           | +            | ╁                  | ┢        | Н        | $\vdash$ |               | 25<br>26 | $\dashv$                  | +                      | +       | +                  | t            | ╁   | Н        | Н         |   |   |
|    |                 | 27       | Ш        |          |          | 匚        |          | I                  | ľ     | I         | 工            | 1                        |              | 77         |                 |                         | コ                      | 工           | I            |                    |          |          |          | 1;            | 27       |                           | 工                      | I       |                    | L            | 1   |          |           |   |   |
|    | <u> </u>        | 28       | Н        | <u> </u> | -        | -        | ┞        | ╄                  | ╀     | +         | ╀            | ┨                        | ⊢            | 78<br>79   | Н               | $\dashv$                | +                      | +           | ╀            | -                  | ļ.,      | Н        | $\vdash$ |               | 28<br>29 | $\dashv$                  | -                      | ╀       | -                  | ╄            | +   |          | $\dashv$  |   |   |
|    |                 | 30       | -        | -        | ├        | -        | ┢        | ╁                  | ╁     | +         | ╁            | 1                        | $\vdash$     | 80         | Н               | $\dashv$                | +                      | +           | ╁            | ╁                  | $\vdash$ | H        | $\vdash$ |               | 30       |                           | ╁                      | ╁       | ╁                  | ╁            | ╁   | ┢        | $\dashv$  |   |   |
| ٠. |                 | 31       |          |          |          |          |          | T                  | I     | T         | 工            | 1                        |              | 81         |                 |                         |                        | 土           | I            | 工                  |          | 口        |          | 1             | 31       |                           |                        | I       | I                  |              | 二   |          |           |   |   |
|    |                 | 32       | _        | _        | -        | -        | -        | ╀                  | ╀     | +         | ╀            | -                        | <del>ا</del> | 82<br>83   | Н               | $\dashv$                | +                      | +           | ╀            | +                  | ┡        | Н        | $\vdash$ |               | 32<br>33 | $\dashv$                  | +                      | +       | +                  | ╀            | +   | $\vdash$ | Н         |   |   |
| •  | $\vdash$        | 34       | H        |          | H        | $\vdash$ | H        | t                  | t     | +         | ╁            | 1                        | $\vdash$     | 84         | H               | +                       | ╁                      | +           | 十            | ╅                  | ╁        | H        | H        |               | 34       | $\dashv$                  | +                      | +       | ╁╴                 | t            | +   | $\vdash$ | Н         |   |   |
|    |                 | 35       |          |          |          |          |          | L                  | I     | 上         | $\perp$      | 1                        |              | 85         |                 |                         | 1                      |             | 1            | 1                  |          | $\Box$   |          |               | 35       |                           |                        | I       | 工                  |              | Г   |          |           |   |   |
|    | -               | 36<br>37 | Н        | _        | ┡        | ┝        | ⊢        | ╀                  | ╀     | ╀         | +-           | 4                        | <u> </u>     | 86<br>87   | $\vdash$        | -+                      | +                      | +-          | ╀            | +                  | ┝        | $\vdash$ | <u> </u> |               | 36<br>37 |                           | +                      | +       | ╀                  | ╀            | ╀   | H        | Н         |   |   |
|    |                 | 38       | H        |          |          |          |          | T                  | 1     | 士         | $\dagger$    | 1                        |              | 88         | H               |                         | _                      | +           | $\dagger$    | $\pm$              |          | H        |          |               | 38       |                           | 1                      | 士       | 1                  | İ            | 士   |          | $\exists$ |   |   |
|    |                 | 39       |          |          | Ŀ        | Г        |          | Γ                  | T     | T         | I            |                          |              | 89         |                 | $\Box$                  | 7                      | I           | I            | Ŧ                  |          | П        | F        |               | 39       |                           | I                      | Ţ       | I                  | Γ            | Г   | Г        |           | • |   |
|    | <u> </u>        | 40       | Н        | -        | ╀        | ╀        | ╀        | ╀                  | ╀     | ╀         | ╀            | -                        | -            | 90         | Н               | $\dashv$                | +                      | +           | +            | ┽                  | ╀        | H        | -        |               | 40       | ┵                         | ╬                      | ╀       | ╀                  | ╀            | +   | H        | $\dashv$  |   |   |
|    |                 | 42       | H        |          | 1        | $\vdash$ | 1        | $\perp$            | $\pm$ | †         | $^{\dagger}$ | 1                        |              | 92         | H               | ╛                       | $\dashv$               | <del></del> | $\dagger$    | 1                  |          | Ы        |          | 1.            | 42       | 一                         |                        | $\pm$   | 士                  | $\perp$      |   | Н        | $\vdash$  |   |   |
|    |                 | 43       | П        |          |          | Г        | Г        | Γ                  | Ţ     | Ţ         | Ţ            | ]                        |              | 93         | П               | $\Box$                  | $\dashv$               | T           | Ţ            | Ţ                  |          | 口        |          | 1             | 43       | $\Box$                    | Ţ                      | T       | F                  | F            | F   | П        |           |   |   |
|    | -               | 44       | Н        | H        | ╀        | ╁╌       | ╁        | +                  | +     | +         | +            | 1                        | <u> </u>     | 94         | Н               | $\dashv$                | +                      | +           | +            | +                  | $\vdash$ | H        | $\vdash$ |               | 44<br>45 | $\dashv$                  | +                      | +       | ┿                  | +            | +   | H        | Н         |   |   |
|    |                 | 46       |          |          |          | L        | t        |                    | 士     | 士         | 士            | 1                        |              | 96         | H               | _                       | $\forall$              | $\top$      | $^{\dagger}$ |                    | T        |          |          |               | 46       |                           | 士                      | $\pm$   | İ                  | $^{\dagger}$ | 上   |          | Н         |   |   |

148 149